## PATENT ATTORNEY DOCKET NO. 07891/003006

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Robert G. Korneluk et al.

Art Unit:

Not yet assigned

Serial No.:

Not yet assigned

Examiner:

Not yet assigned

Filed:

June 20, 2003

Customer No.:

21559

Title:

MAMMALIAN IAP GENE FAMILY, PRIMERS, PROBES AND

**DETECTION METHODS** 

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

This statement is being filed with the application. Applicants submit the enclosed PTO 1449 form identifying fifty-eight (58) references. Under 35 USC §120, this application relies on the earlier filing date of application serial number 09/011,356 filed on February 4, 1998. The references were previously submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

Submission of this statement is not a representation that a search has been made, nor is the inclusion of information in this statement an admission that the information is

material to patentability.

If there are any charges or any credits, please apply them to Deposit Account No. 03-2095.

Date: June 20, 2003

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Respectfully submitted,

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SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No.	07891/003006
	Serial No.	Not yet assigned	
		Applicant	Robert G. Korneluk et al.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Filing Date	June 20, 2003
		Group	Not yet assigned
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(37 C.F.R. §1.98(b))		Customer No.	21559

U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
	5,691,179	11/25/97	Korsmeyer			
	5,770,690	06/23/98	Bitler et al.			
	6,187,557	02/31/01	Rothe et al.	<u>L</u>		
	FORE	IGN PATENT	OR PUBLISHED FOREIGN PATENT A	PPLICATION	NC	
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
	WO 95/19431	20/07/95	РСТ			
	WO 94/06814	31/03/94	РСТ			
	WO 95/28497	26/10/95	РСТ			
	WO 97/06182	20/02/97	PCT			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
	Accession S69544, Q13490, Q13489, S68451, HSU45878					
	Birnbaum et al., "An apoptosis-inhibiting gene from a nuclear polyhedrosis virus encoding a polypeptide with Cys/His sequence motifs" <i>J. of Virol.</i> 68:2521 (1994)					
-	Cameron, "Recent advances in transgenic technology" Molecular Biotechnology 7:253 (1997)					
	Campbell, Monoclonal Antibody Technology Elsevier Science Publishers B.V. N.Y. NY. (1984)					
	Clem et al., "Induction and inhibition of apoptosis by insect viruses" Apoptosis II: The Molecular Basis of Apoptosis in Disease Cold Spring Harbor Laboratory Press, p. 89 (1994)					
	Clem et al., "Anti-apoptotic genes of baculovirus" Cell Death and Differentiation 3:9 (1996)					
	Clem et al., "Prevention of apoptosis by a baculovirus gene during infection of insect cells" <i>Science</i> 254:1388 (1991)					
	Clem et al., "Cor 14:5212 (1994)	ntrol of program	med cell death by the baculovirus gene	es p35 and	iap" Mol. and	l Cell. Biology
	Crook et al., "An	apoptosis-inhib	oiting baculovirus gene with a zinc finge	er-like motif	" J. of Virol. 6	67:2168 (1993)
	Dhein et al., "Autocrine T-cells suicide mediated by APO-1(Fas/CD95)" Abstract, Nature 373:438 (1995)					

EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation form with the next communication to applicant.	n if not in conformance and not considered. Include copy of this

			Sheet 2 of 4
SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE	Attorney Docket No.	07891/003006	
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	Duckett et al., "A conserved family of cellular genes related to the baculovirus iap gene and encoding apoptosis inhibitors" The EMBO Journal 15:2685 (1996)
	Dupressoir et al., Molecular Cell Biology 16:4495 (1986)
	Eck et al., Goodman's and Gilman's the pharmacological basis of therapeutics Chapter 5, 9th Ed. 77-101 (1995)
1	Fernandez et al., "Differential sensitivity of normal and Ha-ras-transformed C3H mouse embryo fibroblasts to tumor necrosis factor:" Abstract, Oncogene 9:2009 (1994)
	Ferrari et al., "N-acetylcysteine (D- and L-stereoisomers) prevents apoptotic death of neuronal cells" Abstract, J. Neurosci. 1516:2857 (1995)
	Fisher et al., "Dominant interfering Fas gene mutations impair apoptosis in a human autoimmune lymphoproliferative syndrome" <i>Cell</i> 81:935 (1995)
	Gibellini et al., "Tat-expressioon Jurkat cells show an increased resistance to different apoptic stimuli"Abstract, Br. J. Haematol 89:24 (1995)
	Golstein et al., "Homology between reaper and the cell death domains of Fas and TNFR1" Cell 81:185 (1995)
	Goruppi et al., "Dissection of c-myc domains involved in S phase induction of NIH3T3 fibroblasts" Abstract, Oncogene 9:1537 (1994)
	Harlow et al., Antibodies: A laboratory manual Cold Spring Harbor Laboratory, page 76 (1989)
	Harrington et al., "c-Myc-induced apoptosis in fibroblasts is inherited by specific cytokines" Abstract, <i>EMBO J.</i> 13:3286 (1994)
	Itoh et al., "A novel protein required for apoptosis" Abstract, J. Biol. Chem. 268:10932 (1993)
	J. Kerr, "Neglected opportunities in apoptosis research" Trends in Cell Biology 5:55 (1995)
	Katsikis et al., "Fas antigen stimulation induces marked apoptosis of T lymphocytes in human immunodeficiency virus-infected individuals" Abstract, <i>J. Exp. Med.</i> 1815:2029 (1995)
	Korsmeyer, "Regulators of cell death" <i>TIG</i> 11:101 (1995)
	Lerner, "Tapping the immunological repertoire to produce antibodies of predetermined specificity" Nature 299:592 (1982)
	Li et al., "Induction of apoptosis in uninfected lymphocytes by HIV-1 Tat protein" Abstract, Science 268:429 (1995)
	Liston et al., "Suppression of apoptosis in mammalian cells by NAIP and a related family of IAP genes" <i>Nature</i> 379:349 (1996)
	Martin et al., "HIV-1 infection of human CD4+ T cells in vitro" Abstract, J. Immunol. 152:330 (1994)

EXAMINER	DATE CONSIDERED
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			Sheet 3 of 4
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Melino et al., "Tissue transglutaminase and apoptosis: sense and antisense transfection studies" Abstract, Mol. Cell. Biol. 14:6584 (1994)
Mulligan, Science 260:926 (1993)
Muro-Cacho et al., "Analysis of apoptosis in lymph nodes of HIV-infected persons" Abstract, <i>J. Immunol.</i> 154:5555 (1995)
Nagata et al., "The FAS death factor" Science 267:1449 (1995)
Nunez et al., "The Bcl-2 family of proteins: regulators of cell death and survival" <i>Trends in Cell Biology</i> 4:399 (1994)
Orkin et al., "Report and recommendations of the panel to access the NIH investment in research on gene therapy" (1995)
Osborne et al., "Essential genes that regulate apoptosis" Trends in Cell Biology 4:394 (1994)
Rabizadeh et al., "Expression of the baculovirus p35 gene inhibits mammalian neural cell death" Abstract, J. Neurochem. 61:2318 (1993)
 Rieux-Laucat et al., "Mutations in Fas associated with human lymphoproliferative syndrome and autoimmunity" Science 268:1347 (1995)
Rosenbaum et al., "Evidence for hypoxia-induced, programmed cell death of cultured neurons" Abstract, <i>Ann. Neurol.</i> 36:864 (1994)
Rothe et al., "The TNFR2-TRAF Signaling Complex Contains Two Novel Proteins Related to Baculoviral Inhibitor of Apoptosis Proteins" <i>Cell</i> 83:1243 (1995)
Roy et al., "The gene for neuronal apoptosis inhibitory protein is partially deleted in individuals with spinal muscular atrophy" <i>Cell</i> 80:167 (1995)
Sato et al., "Neuronal differentiation of PC12 cells as a result of prevention of cell death by bcl-2" Abstract, <i>J. Neurobiol.</i> 25:1227 (1994)
 Steller, "Mechanisms and genes of cellular suicide" Science 267:1445 (1995)
Talley et al., "Tumor necrosis factor alpha-induced apoptosis in human neuronal cells:" Abstract, <i>Mol. Cell. Biol.</i> 1585:2359 (1995)
 Terai et al., "Apoptosis as a mechanism of cell death in cultured T lymphoblasts acutely infected with HIV-1" Abstract, <i>J. Clin. Invest</i> 87:1710 (1991)
Vossbeck et al., "Direct transforming activity of TGF-beta on rat fibroblasts", Abstract, <i>Int. J. Cancer</i> 61:92, (1995)

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Sheet 4\_ of 4 07891/003006 SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE Attorney Docket No. PATENT AND TRADEMARK OFFICE (MODIFIED) Serial No. Not yet assigned Robert G. Korneluk et al. **Applicant** Filing Date June 20, 2003 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Not yet assigned Group (Use several sheets if necessary) **IDS** Filed June 20, 2003 21559 (37 C.F.R. §1.98(b)) Customer No.

Westendorp et al., "Sensitization of T cells to CD95-mediated apoptosis by HIV-1 Tat and gp120" <i>Nature</i> 375:497 (1995)
Walkinshaw et al., "Induction of apoptosis in catecholaminergic PC12 cells by L-DOPA" Abstract, J. Clin. Invest. 95:2458 (1995)
White et al., "Genetic control of programmed cell death in drosophila" Science 264:677 (1994)
Williams et al., " Apoptosis: final control point in cell biology" Trends in Cell Biology 2:263 (1992)
Wyllie, "Death gets a brake" Nature 369:272 (1994)

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